

Appl No. 10/767,668
Amdt. dated Jan. 19, 2006
Reply to Office Action of Oct. 7, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

Claim 1 (currently amended): A multi-component conductive yarn comprising a primary component and a secondary component:

 said primary component consists of at least one set elongated filament formed of a single polymeric material;

 said secondary component ~~consisting~~ consists solely of a blend of said single polymeric material and carbon nanotubes bonded with said primary component along its length, said secondary component being unset;

 said carbon nanotubes constituting [[of]] up to .5% of the multi-component yarn.

Claim 2 (currently amended): The yarn of claim 1 wherein said polymeric material is ~~formed of one selected from the group consisting of~~ polyester, polyamide, polypropylene, polyethylene, PPS and PEEK.

Claim 3 (currently amended): The yarn of claim 1 wherein said polymeric material of said secondary component includes at least 80% of a polymer selected from the group consisting one of polyester, polyamide, polypropylene, polyethylene, PPS and PEEK.

Claim 4 (previously presented): The yarn of claim 1 wherein said secondary component comprises a sheath bonded with and surrounding said primary component.

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Claim 5 (currently amended): ~~The yarn of claim 1 wherein said secondary component comprises an elongated filament bonded with said primary component along its length.~~

A multi-component conductive yarn comprising a primary component and a secondary component:

said primary component consists of at least one set elongated filament formed of a single polymeric material;

said secondary component comprises an elongated filament consisting solely of a blend of said single polymeric material and carbon nanotubes bonded with said primary component along its length, said secondary component being unset;

said carbon nanotubes constituting up to .5% of the multi-component yarn.

Claim 6-9 (canceled)

Claim 10 (previously presented): The conductive yarn of claim 1 wherein said primary component comprises a plurality of elongated filaments.

Claim 11-21 (canceled)

Claim 22 (currently amended): A conductive multi-component yarn comprising a primary component and a secondary component:

said primary component consisting of [[a]] at least one set elongated filament formed of a single polymeric material;

said secondary component consisting of a single polymeric material, unset and blended with carbon nanotubes, said carbon nanotubes comprising between .5% and 10% of said blend and said polymeric material comprising between 90% to 99.5% of said blend;

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said secondary component being bonded with the exterior of enclosing said primary component forming a sheath along its length and comprising between .5% and 10% wt of said multi-component yarn.

Claim 23 (cancel)